

Product datasheet for TA346877

OriGene Technologies, Inc.

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AKT1 Mouse Monoclonal Antibody [Clone ID: 2D9-D2-H3]

Product data:

Product Type: Primary Antibodies

Clone Name: 2D9-D2-H3

Applications: WB

Recommended Dilution: WB: 1:2000

Reactivity:MouseHost:MouseIsotype:IgG2a

Clonality: Monoclonal

Immunogen: The immunogen for AKT1 antibody: purified recombinant human AKT1 protein fragments

expressed in E.coli.

Formulation: Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.02% sodium azide, and

50% glycerol.

Purification: Affinity purified Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 60 kDa

Gene Name: AKT serine/threonine kinase 1

Database Link: NP 001014432

Entrez Gene 11651 Mouse

P31749



Background:

The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

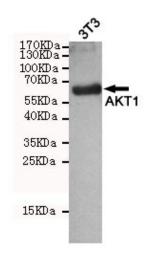
Synonyms: AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

Protein Pathways: Acute myeloid leukemia, Ac

Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Insulin signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Melanoma, mTOR signaling pathway, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Tight junction, Toll-like receptor signaling pathway, VEGF signaling pathway

Product images:



Western blot detection of AKT1 in 3T3 cell lysates using AKT1 mouse mAb (dilution 1:2000), with super ECL.Predicted band size:60KDa.Observed band size:60KDa.





Western blot detection of AKT1 in CHO-K1 cell lysate (B) and CHO-K1 transfected by AKT1 (A) cell lysate using AKT1 mouse mAb (1:1000 diluted). Predicted band size: 60 KDa. Observed band size: 60 KDa.